

Agricultural Mechanics Career Development Event

New Jersey FFA Association
New Jersey Department of Agriculture
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In Cooperation with the New Jersey Department of Education

Purpose of Event

The Agricultural Mechanics Career Development Event effectively prepares for the agricultural mechanics workplace. Tomorrow's workers must not only develop a high degree of knowledge and skill, but they must also develop the ability to solve difficult problems. The agricultural mechanics worker of tomorrow will perform these skills while working with others and, in the process, may be required to apply a wide range of technologies that interrelate as part of systems.

State Core Curriculum Content Standards

Through Agriculture, Food, and Natural Resources Education, FFA helps students meet the State Core Curriculum Content Standards. The Agricultural Mechanics Career Development Event teaches students about Language Arts Literacy and Science standards. Some examples of how the Agricultural Mechanics Career Development Event is meeting these standards are:

All students will access, view, evaluate, and respond to print, non-print, and electronic texts and resources.

- Comprehension and critical analysis skills of Agricultural Education students are developed through identification and evaluation of mechanical problems and theory through media (slides, videos, and computer CD-ROM). [3.5 - **Language Arts Literacy: Viewing and Media Literacy**]

All students will integrate mathematics as a tool for problem solving in science, and as a means of expressing and/or modeling scientific theories.

- Testing materials, such as calculations for fertilizer dilution and concentrations, stress the critical thinking, decision-making and problem-solving skills that are an integral part of the Agricultural Mechanics Career Development Event. [5.3 – **Science: Mathematical Applications**]

Rules of Event

All Career Development Events will follow the general rules, which are published in the NJ State FFA Activity Guide (7.000). This event has four (4) phases: Phase I - Written Exam; Phase II - Problem Solving; Phase III - Identification; Phase IV - Hands on Practicum. The Event theme will be published in the Spring Career Development Event announcement. A chapter may have a team of three (3) or four (4). The top three (3) scores are used in determining the team's rank. For more information about this event, [click here](#) to consult the [National FFA Career Development Event Handbook](#).

Scoring for the New Jersey Event

(other scoring will occur on the national level)

Phase I - Written Exam - 100 points

Phase II - Problem Solving (4 areas at 25 points each) – 100 points

Phase III - Identification - 100 points

Phase IV - Hands-on-Practicum - 100 points

Team Total - 1200 points Individual total – 400 points

[Click here to discover the Career Opportunities, SAE Opportunities and Proficiency Award Areas that correspond to the Agricultural Mechanics Career Development Event!](#)

Agricultural Mechanics Theme Rotational Pattern

Materials Handling Systems 2007

Processing Systems 2008

Plant Production Systems 2009

Integrated Pest Management 2010